

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First-Named Inventor: TAKAHASHI

Application No.: UNKNOWN

Date Filed: 6/9/2005

Docket No.: JP020023US

RECEIVED

4 OCT 2007

Legal Staff  
International Division

Title: LIQUID CRYSTAL DISPLAY DEVICE WITH AN OPTICALLY DIFFUSIVE  
REFLECTING LAYER AND MANUFACTURING METHOD FOR THE SAME

Attn: PCT Legal (Fax No. 571-273-0459)

Commissioner for Patents

PO Box 1450

Alexandria, VA 22313-1450

**SECOND REQUEST FOR CONFIRMATION OF APPLICATION  
RECEIPT BY THE EO/DO**

Sir:

On June 9, 2005, Applicant mailed via Express Mail two applications:  
International Application PCT/IB03/005955 ("Application #1") and International  
Application Number PCT/IB03/005948 ("Application #2"). As explained below,  
Applicant received the same serial number for Application #1 and Application #2.  
Because these are two different applications, Applicant hereby requests confirmation of  
receipt of Application #2 and a separate serial number for Application #2.

On June 9, 2005, Applicant mailed Application #1 via Express Mail  
(EV701785202US), Attorney Docket Number JP020023US. The Office returned the  
self-addressed stamped postcard with US Serial Number **10/538280** in this application.

On June 9, 2005, Applicant also mailed Application #2 via Express Mail  
(EV701785202US), Attorney Docket Number JP020024US. The Office returned the  
self-addressed stamped postcard with US Serial Number **10/538280** in this application.  
This is the same application serial number as Application #1.

On January 15, 2007, Applicant faxed to PCT Receiving Office (571-273-8300) a Request for Confirmation of Application Receipt by the EO/DO for Application #2.

Please note that in the original filing, Applicant inadvertently used the same Attorney Docket Number JP020024US and International Application Number PCT/IB03/05948 on the transmittal letters. However, the other documents submitted with the transmittals reference the different Attorney Docket Numbers and International Application numbers identified above.

Applicant presents copies, as submitted via Express Mail, of Application #1 (Exhibit A) and Application #2 (Exhibit B) for the Office's convenience.

Applicant presents copies of the returned, stamped postcards for the Office's convenience (Exhibit C).

Applicant is seeking the status of Application #2, submitted with priority claimed to PCT/IB03/005948, Attorney Docket Number JP020024US.

Date: October 4, 2007

Respectfully submitted,

By Kevin Simons  
Kevin Simons, Reg. No. 45,110  
(408) 904-3621  
Philips Electronics North America Corp.  
Intellectual Property & Standards  
370 West Trimble Road, MS 91/MG  
San Jose, CA 95131

**CERTIFICATE OF MAILING or TRANSMISSION**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA, 22313-1450" or being facsimile transmitted to the USPTO, on the date indicated below.

(Date) \_\_\_\_\_ (Signature) \_\_\_\_\_  
(Name) Daniel L. Michalek

## **EXHIBIT A**

Customer Copy  
L8001 11-8, April 2004

UNITED STATES POSTAL SERVICE®

Post Office To Addressee



EV 701785193 US

ORIGIN (POSTAL SERVICE USE ONLY)			
PO ZIP Code <b>75702</b>	Day of Delivery <input type="checkbox"/> Next <input type="checkbox"/> 2nd <input type="checkbox"/> 3rd Day	Postage \$ <b>0</b>	
Date of Sale <b>09-20-05</b>	Scheduled Date of Delivery <b>09-25-05</b>	Return Receipt Fee \$	
No. Day Year	Weight <b>1.0</b> lbs	CD Fee \$	Insurance Fee \$
Time of Delivery <b>2:47</b> AM	Scheduled Time of Delivery <input type="checkbox"/> None <input checked="" type="checkbox"/> 3 PM	TOTAL POSTAGE & FEE \$ <b>13.65</b>	
Net Rate <input type="checkbox"/> or Weight	<input type="checkbox"/> 1st Day <input type="checkbox"/> 2nd Day	Acceptance Emp. Initials <b>RR</b>	
<b>4.0</b> lbs	Int'l Special Customs Code		

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1st Day			
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CUSTOMER USE ONLY	
METHOD OF PAYMENT <b>CREDIT CARD</b>	Expedited Delivery Fee <b>0.00</b>
FROM: (PLEASE PRINT) <b>DMILHALEX</b> PHILIPS ELECTRONICS USA CORP INTELLECTUAL PROPERTY & STANDA 1104 MERIDEN ST P.O. BOX 48-00 SARASOTA, FL 34231-0048 USA	TO: (PLEASE PRINT) <b>PHILIPS ELECTRONICS USA CORP</b> INTELLECTUAL PROPERTY & STANDA 1104 MERIDEN ST P.O. BOX 48-00 SARASOTA, FL 34231-0048 USA
JPO2 0023 US	

FOR PICKUP OR TRACKING: Visit [www.usps.com](http://www.usps.com) or Call 1-800-222-1811

Express Mail: EV 701785193 US  
 INT'L FILE DATE: 11 December 2003  
 FIRST INVENTOR: Satoru TAKAHASHI

DOCKET No.: JP02 0023 US  
 DATE MAILED: 6/9/2005  
 ATTORNEY: SIMO/dlm

TITLE: LIQUID CRYSTAL DISPLAY DEVICE WITH AN OPTICALLY DIFFUSIVE  
 REFLECTING LAYER AND MANUFACTURING METHOD FOR THE  
 SAME

Items listed have been received in the USPTO on the date indicated by the stamp below.

- ☒ Transmittal Letter ☒ Cert. of Mailing  
☒ Fees paid by deposit account  
☒ Preliminary Amendment - 6 pages  
☒ Declaration & POA - 2 pages  
☒ Assignment w/Recordation Form Cover Sheet - Fees paid  
☒ IDS with Form PTO/SB/1448 ☐ copy of \_\_\_ cited refs.  
☒ Power of Attorney to Prosecute Application Before the USPTO  
☒ Statement Under 37 CFR 3.73(b)



EV 701785193 US

Mailing Label  
 Label 11-F, April 2004



UNITED STATES POSTAL SERVICE®

Post Office To Addressee

ORIGIN (POSTAL SERVICE USE ONLY)				DELIVERY (POSTAL USE ONLY)			
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Flat Rate <input type="checkbox"/> or Weight	<input type="checkbox"/> Noon <input type="checkbox"/> 2 PM <input type="checkbox"/> 3 PM	Acceptance Emp. Initials		Delivery Date	Time	<input type="checkbox"/> AM <input type="checkbox"/> PM Employee Signature	
Int'l Alpha Country Code				Mo. Day	Time	<input type="checkbox"/> AM <input type="checkbox"/> PM Employee Signature	
FROM: (PLEASE PRINT) <b>DMICHALEX</b> <b>PHILIPS ELECTRONICS NA CORP</b> <b>INTELLECTUAL PROPERTY &amp; STAND.</b> <b>1109 MCKAY DR</b> <b>MAIL STOP 41-SJ</b> <b>SAN JOSE CA 95131-1706</b> <b>USA</b> <b>JP02 0023 US</b>				TO: (PLEASE PRINT) <b>M/S PCT</b> <b>COMMISSIONER FOR PATENTS</b> <b>PO BOX 1450</b> <b>ALEXANDRIA VA 22313-1450</b>			
FOR PICKUP OR TRACKING: Visit <a href="http://www.usps.com">www.usps.com</a> or Call 1-800-222-1811							

PRESS HARD. YOU ARE MAKING 3 COPIES.

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>				AT. EYES DOCKET NO. <b>JP02 0024 US</b>																																											
INTERNATIONAL APPLICATION NO. <b>PCT/IB03/05948</b>		INTERNATIONAL FILING DATE <b>11 December 2003</b>		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 																																											
TITLE OF INVENTION <b>COLOR FILTER AND LIQUID CRYSTAL DISPLAY DEVICE USING IT, AND THEIR MANUFACTURING METHODS</b>																																															
APPLICANT(S) FOR DO/EO/US <b>Yusei UKAWA</b>																																															
Applicant(s) herewith submit to the United States Designated/Elected Office (DO/EO/US) the following:																																															
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). <input checked="" type="checkbox"/> has been transmitted by the International Bureau. 3. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). <input checked="" type="checkbox"/> have not been made and will not be made. 4. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).																																															
The following document(s) or information are included:																																															
5. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98 6. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included 7. <input checked="" type="checkbox"/> A preliminary amendment 8. <input checked="" type="checkbox"/> Power of Attorney to Prosecute Application before the USPTO 9. <input checked="" type="checkbox"/> Statement under 37 CFR §3.73(b) 10. <input type="checkbox"/> Information Disclosure Statement 11. <input checked="" type="checkbox"/> Authorization Pursuant to 37 CFR § 1.136(a)(3) and to Charge Deposit Account <b>14-1270</b> 12. <input checked="" type="checkbox"/> Receipt Confirmation Postcard																																															
The following fees have been submitted:				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">CALCULATIONS</th> <th style="width: 50%;">PTO USE ONLY</th> </tr> <tr> <td colspan="2" style="height: 100px; vertical-align: top;"> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">           13. <input checked="" type="checkbox"/> Basic national fee ..... \$ 300            14. <input checked="" type="checkbox"/> Examination fee (Int'l prelim. exam. report NOT prepared by USPTO)..... \$ 200            15. <input checked="" type="checkbox"/> Search Fee (Int'l Search Report prepared and provided to the Office)..... \$ 400  <b>TOTAL OF 13, 14 and 15 =</b> </td> <td style="width: 50%; text-align: right; vertical-align: bottom;"> <b>\$ 900</b> </td> </tr> <tr> <td colspan="2"> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">CLAIMS</th> <th style="width: 10%;"># FILED</th> <th style="width: 10%;"># EXTRA</th> <th style="width: 20%;">RATE</th> <th style="width: 40%;">TOTAL FEES FOR CLAIMS =</th> </tr> <tr> <td>Total claims</td> <td>7 - 20 =</td> <td>0</td> <td>X \$50</td> <td>\$ 0</td> </tr> <tr> <td>Independent claims</td> <td>2 - 3 =</td> <td>0</td> <td>X \$200</td> <td>\$ 0</td> </tr> <tr> <td colspan="5" style="text-align: right;"><b>TOTAL FEES FOR CLAIMS =</b></td> </tr> </table> </td> </tr> <tr> <td colspan="2" style="text-align: right; vertical-align: bottom;"> <b>\$ 0</b> </td> </tr> </table> </td> </tr> <tr> <td colspan="4" style="padding: 5px;">           Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)) accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property +         </td> <td colspan="2" style="padding: 5px; text-align: right; vertical-align: bottom;"> <b>\$ 40</b> </td> </tr> <tr> <td colspan="4" style="padding: 5px;"> <b>TOTAL FEES ENCLOSED =</b> </td> <td colspan="2" style="padding: 5px; text-align: right; vertical-align: bottom;"> <b>\$ 940</b> </td> </tr> </table>		CALCULATIONS	PTO USE ONLY	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">           13. <input checked="" type="checkbox"/> Basic national fee ..... \$ 300            14. <input checked="" type="checkbox"/> Examination fee (Int'l prelim. exam. report NOT prepared by USPTO)..... \$ 200            15. <input checked="" type="checkbox"/> Search Fee (Int'l Search Report prepared and provided to the Office)..... \$ 400  <b>TOTAL OF 13, 14 and 15 =</b> </td> <td style="width: 50%; text-align: right; vertical-align: bottom;"> <b>\$ 900</b> </td> </tr> <tr> <td colspan="2"> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">CLAIMS</th> <th style="width: 10%;"># FILED</th> <th style="width: 10%;"># EXTRA</th> <th style="width: 20%;">RATE</th> <th style="width: 40%;">TOTAL FEES FOR CLAIMS =</th> </tr> <tr> <td>Total claims</td> <td>7 - 20 =</td> <td>0</td> <td>X \$50</td> <td>\$ 0</td> </tr> <tr> <td>Independent claims</td> <td>2 - 3 =</td> <td>0</td> <td>X \$200</td> <td>\$ 0</td> </tr> <tr> <td colspan="5" style="text-align: right;"><b>TOTAL FEES FOR CLAIMS =</b></td> </tr> </table> </td> </tr> <tr> <td colspan="2" style="text-align: right; vertical-align: bottom;"> <b>\$ 0</b> </td> </tr> </table>		13. <input checked="" type="checkbox"/> Basic national fee ..... \$ 300 14. <input checked="" type="checkbox"/> Examination fee (Int'l prelim. exam. report NOT prepared by USPTO)..... \$ 200 15. <input checked="" type="checkbox"/> Search Fee (Int'l Search Report prepared and provided to the Office)..... \$ 400 <b>TOTAL OF 13, 14 and 15 =</b>	<b>\$ 900</b>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">CLAIMS</th> <th style="width: 10%;"># FILED</th> <th style="width: 10%;"># EXTRA</th> <th style="width: 20%;">RATE</th> <th style="width: 40%;">TOTAL FEES FOR CLAIMS =</th> </tr> <tr> <td>Total claims</td> <td>7 - 20 =</td> <td>0</td> <td>X \$50</td> <td>\$ 0</td> </tr> <tr> <td>Independent claims</td> <td>2 - 3 =</td> <td>0</td> <td>X \$200</td> <td>\$ 0</td> </tr> <tr> <td colspan="5" style="text-align: right;"><b>TOTAL FEES FOR CLAIMS =</b></td> </tr> </table>		CLAIMS	# FILED	# EXTRA	RATE	TOTAL FEES FOR CLAIMS =	Total claims	7 - 20 =	0	X \$50	\$ 0	Independent claims	2 - 3 =	0	X \$200	\$ 0	<b>TOTAL FEES FOR CLAIMS =</b>					<b>\$ 0</b>		Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)) accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property +				<b>\$ 40</b>		<b>TOTAL FEES ENCLOSED =</b>				<b>\$ 940</b>	
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<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge the above fees, as well as any additional fee which may be required, with the exception of the Base Issue Fee, or credit any overpayment to our Deposit Account No. <b>14-1270</b> .																																															
<b>SEND ALL CORRESPONDENCE TO:</b> <b>PHILIPS ELECTRONICS NORTH AMERICA CORPORATION</b> Intellectual Property & Standards 1109 McKay Drive, M/S41-SJ San Jose, California 95131				USPTO CUSTOMER NO. <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>24738</b> </div>																																											
<div style="text-align: right;">             Kevin Simons, Reg. No. 45,110            Tel.: (408) 474-9075         </div>																																															
<b>CERTIFICATE OF EXPRESS MAILING</b> I hereby certify that this paper and/or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 is addressed to "Mail Stop PCT, Commissioner for Patents, PO Box 1450, Arlington, VA 22313," on the date indicated below.																																															
(Date) <u>6/9/05</u> (Signature) (Name) <b>Daniel L. Michalek</b>																																															

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Appl. No.	:	Unassigned	Confirmation No.	Unassigned
Applicant	:	Satoru TAKAHASHI		
Filed	:	Concurrently		
TC/A.U.	:	Unassigned		
Examiner	:	Unassigned		

Docket No.	:	JP02 0023 US
Customer No.	:	24738

Title: LIQUID CRYSTAL DISPLAY DEVICE WITH AN  
OPTICALLY DIFFUSIVE REFLECTING LAYER AND  
MANUFACTURING METHOD FOR THE SAME

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**PRELIMINARY AMENDMENT**

Sir:

Prior to calculation of the filing fee and examination please amend the above-identified application as follows:

**Amendments to the Specification** there are no amendments in this paper.

**Amendments to the Claims** begin on page 2 of this paper.

**Remarks/Arguments** begin on page 5 of this paper.

Appl. No. Unassigned; E No. JP02 0023 US  
Amdt. dated 07-Jun-2005  
Preliminary Amendment

**Amendments to the Claims**

1. (CURRENTLY AMENDED) A liquid crystal display device comprising a liquid crystal layer for performing optical modulation in accordance with an image to be displayed and a diffusive reflecting layer for diffusively reflecting light having passed through the liquid crystal layer to the liquid crystal layer with a diffused reflected light distribution having a predetermined directivity, wherein
- the diffusive reflecting layer has a function of giving the reflected light a diffused reflected light distribution in which: a first range of viewing angles within which reflected light rays of luminous flux of predetermined proportion of the first total luminous flux of reflection are obtained is defined, the first total luminous flux being obtained in a specific plane including an imaginary axis of a specific direction along a principal plane of the diffusive reflecting layer and the normal to the principal plane by incident light in a direction parallel to the normal, the first range of viewing angles having the direction of the incident light as a reference angle; a second range of viewing angles within which reflected light rays of luminous flux of the predetermined proportion of the second total luminous flux of reflection are obtained is defined, the second total luminous flux being obtained by the incident light in the other plane including an imaginary axis of the other direction along the principal plane of the diffusive reflecting layer and the normal to the principal plane, the second range of viewing angles having the direction of the incident light as a reference angle; and the first range is narrower than the second range,
  - an initial average orientation imaginary plane of the liquid crystal layer, including a typical director of liquid crystal molecules in a dark or bright state and the normal to the principal plane of the diffusive reflecting layer, is substantially parallel to the specific plane.
2. (ORIGINAL) A liquid crystal display device as defined in Claim 1, characterized by an orientation film for determining such an initial molecular orientation of the liquid crystal layer that the initial average orientation imaginary plane is set to be substantially parallel to the specific plane.



Appl. No. Unassigned; E No. JP02 0023 US  
Amdt. dated 07-Jun-2005  
Preliminary Amendment

3. (CURRENTLY AMENDED) A liquid crystal display device as defined in ~~Claim 1 or 2~~Claim 1, characterized in that the specific direction and the other direction have substantially a perpendicular relations.
4. (CURRENTLY AMENDED) A liquid crystal display device as defined in ~~Claim 1 or 2~~Claim 1, characterized in that the specific direction is a vertical direction of a display face of the liquid crystal display device, and the other direction is a horizontal direction of the display face.
5. (CURRENTLY AMENDED) A liquid crystal display device as defined in ~~any one of Claims 1-4~~Claim 1, characterized in that the diffusive reflecting layer has a reflecting surface showing roughness of shape based on a plurality of island-shaped outline units of depression or projection portions, and an average diameter of the units of depression or projection portions in the specific direction is greater than an average diameter in a direction substantially perpendicular to the specific direction on the principal plane of the diffusive reflecting layer.
6. (ORIGINAL) A liquid crystal display device as defined in Claim 5, characterized in that an average pitch of the units of depression portions or the units of projection portions in the specific direction is greater than an average pitch of them in a direction substantially perpendicular to the specific direction on the principal plane of the diffusive reflecting layer.
7. (ORIGINAL) A method of manufacturing a liquid crystal display device comprising a liquid crystal layer for performing optical modulation in accordance with an image to be displayed and a diffusive reflecting layer for diffusively reflecting light having passed through the liquid crystal layer to the liquid crystal layer with a diffused reflected light distribution having a predetermined directivity, comprising the steps of:
- forming the diffusive reflecting layer in such a form that the diffusive reflecting layer has a function of giving the reflected light a diffused reflected light distribution in which: a first range of viewing angles within which reflected light rays of luminous flux of predetermined proportion of the total luminous flux of reflection

Appl. No. Unassigned;  $\Gamma$   
Amdt. dated 07-Jun-2005  
Preliminary Amendment

No. JP02 0023 US

are obtained is defined, the total luminous flux being obtained in a specific plane including an imaginary axis of a specific direction along a principal plane of the diffusive reflecting layer and the normal to the principal plane by incident light in a direction parallel to the normal, the first range of viewing angles having the direction of the incident light as a reference angle; a second range of viewing angles within which reflected light rays of luminous flux of the predetermined proportion of the total luminous flux of reflection are obtained is defined, the total luminous flux being obtained by the incident light in the other plane including an imaginary axis of the other direction along the principal plane of the diffusive reflecting layer and the normal to the principal plane, the second range of viewing angles having the direction of the incident light as a reference angle; and the first range is narrower than the second range,

forming an orientation film for determining an initial molecular orientation of the liquid crystal layer, in such a manner that an initial average orientation imaginary plane of the liquid crystal layer, including a typical director of liquid crystal molecules in a dark or bright state and the normal to the principal plane of the diffusive reflecting layer, is substantially parallel to the specific plane.

Appl. No. Unassigned; F No. JP02 0023 US  
Amdt. dated 07-Jun-2005  
Preliminary Amendment

**REMARKS/ARGUMENTS**

The foregoing amendment(s) to claim(s) was/were made solely to avoid filing the claim in the multiple dependent form so as to avoid the additional filing fee.

The claim(s) was/were not amended in order to address issues of patentability and Applicant respectfully reserves all rights she may have under the Doctrine of Equivalents. Applicant furthermore reserves her right to reintroduce subject matter deleted herein at a later time during the prosecution of this application or continuing applications.

Please charge any fees other than the issue fee and credit any overpayments to Deposit Account 14-1270.

Respectfully submitted,

Date: 6/9/05

By Kevin Simons  
Kevin Simons, Reg. No. 45,110  
(408) 474-9075

**Correspondence Address:**

Intellectual Property & Standards  
Phillips Electronics North America Corporation  
1109 McKay Drive; Mail Stop SJ41  
San Jose, CA 95131 USA

**COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY**  
 (includes Reference to PCT International Applications)

 ATTORNEY'S DOCKET  
 NUMBER

**PHJP020023 US**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**"LIQUID CRYSTAL DISPLAY DEVICE WITH AN OPTICALLY DIFFUSIVE REFLECTING LAYER AND MANUFACTURING METHOD FOR THE SAME"**

the specification of which (check only one item below):

☐ is attached hereto.

☐ was filed as United States application

Serial No

on

and was amended

on

☐ was filed as PCT international application

Number

on

and was amended under PCT Article 19

on

(if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

**PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:**

COUNTRY	APPLICATION NUMBER	DATE OF FILING DAY, MONTH, YEAR	PRIORITY CLAIMED UNDER 35 USC 119
JAPAN	2002-365149	17, December, 2002	YES

 U.S. DEPARTMENT OF COMMERCE - Patent and Trademarks Office  
 (July 1994)

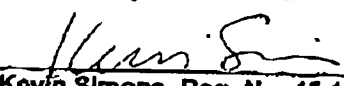
page 1 of 2

Combined Declaration For Patent Application and Power of Attorney (Continued) (includes Reference to PCT International Applications)				Attorneys Docket Number <b>PHJP020023 US</b>	
POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number)					
Jack E. Haken, Reg. No. 26,902 Michael E. Marion, Reg. No. 32, 266 Edward M. Blocker, Reg. No. 30,245				Direct Telephone Calls to: (name and telephone number) (914)332-0222	
201	FULL NAME OF INVENTOR	FAMILY NAME <b>TAKAHASHI</b>	FIRST GIVEN NAME <b>Satoru</b>	SECOND GIVEN NAME	
	RESIDENCE & CITIZENSHIP	CITY <b>Kobe-shi, Hyogo</b>	STATE OR FOREIGN COUNTRY <b>JAPAN</b>	COUNTRY OF CITIZENSHIP <b>JAPAN</b>	
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <b>4-13-S-B401, Koujldai, Nishi-ku,</b>	CITY <b>Kobe-shi, Hyogo</b>	STATE & ZIP CODE/COUNTRY <b>JAPAN</b>	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.					
SIGNATURE OF INVENTOR 201					
<b>Satoru Takahashi</b>					
DATE <b>10, December, 2003</b>					

U.S. DEPARTMENT OF COMMERCE- Patent and Trademarks Office

(July 1994)

page 2 of 2

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office		RECORDATION FORM COVER SHEET PATENTS ONLY		Atty. Docket: <u>JP02 0023 US</u>	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies):  <b>Satoru TAKAHASHI</b>		2. Name and address of receiving party(ies)  <b>KONINKLIJKE PHILIPS ELECTRONICS N.V. Groenewoudseweg 1 Eindhoven, The Netherlands 5621 BA</b>			
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date(s): <u>10-Dec-2003</u>		4. Application number(s) or patent number(s): If being filed together with a new application, the execution date of application is: <u>09-Jun-2005</u> A. Patent Application No.: _____ B. Patent No.: <b>NONE</b>			
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
5. Name & address to whom correspondence concerning document should be mailed:  <b>Philips Electronics North America Corp. Intellectual Property &amp; Standards 1109 McKay Drive, M/S-41SJ San Jose, California 95131</b>  Customer Number: <b>24738</b> PATENT TRADEMARK OFFICE		6. Total number of applications and patents involved: <u>1</u>  7. Total fee (37 DFR 3.41) <u>\$ 40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account  8. Deposit account number: <u>14-1270</u> (Duplicate copy of this page is attached)			
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.   Kevin Simons, Reg. No. 45,110 Date <u>6/9/05</u>  Total number of pages including cover sheet, attachments, and documents: <u>2</u>					

U.S.A. Sole/Joint

## ASSIGNMENT

Docket No. PHJP020023 US

For good and valuable consideration, of which I acknowledge receipt, I, as a below-named assignor, sell and assign to Koninklijke Philips Electronics N.V. (hereinafter "Assignee") a corporation existing under the laws of Kingdom of the Netherlands, whose business address Groenewoudseweg 1, 5621 BA Eindhoven, the Netherlands, its successors and assigns, the application for a United States Patent for the improvements in a

**"LIQUID CRYSTAL DISPLAY DEVICE WITH AN OPTICALLY DIFFUSIVE REFLECTING LAYER  
AND MANUFACTURING METHOD FOR THE SAME"**

invented by us, which application:

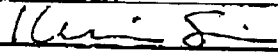

- ☐ is executed concurrently herewith  
☐ was executed by me/us on .....  
☐ is Serial No. .... filed .....  
☐ is International Application No. ....filed.....

and all rights in and to said application, and all Patents which may be granted therefore, and all divisions, reissues, continuations and extensions thereof, and authorize and request the Commissioner of Patents and Trademarks to issue all Patents on said improvements or resulting therefrom to said Assignee as assignee of the entire interest and covenant that I have full right so to do, and agree that I will communicate to said Assignee or its representatives any facts known to me respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns and nominees, to obtain and enforce proper protection for said invention.

December 10, 2003 (sign name here)  
Date (print name here)

Satoru Takahashi  
Satoru TAKAHASHI

\_\_\_\_\_, Assignor

<b>INFORMATION DISCLOSURE STATEMENT TRANSMITTAL</b>		Application Number	
<b>To Commissioner For Patents</b> Enclosed herewith is a Form PTO-1449, any required copies of documents listed thereon, and any concise explanation of their relevance is indicated below per 37 CFR 1.97.		Filing Date	
		First Named Inventor	Satoru TAKAHASHI
		Group Art Unit	
		Examiner Name	
		Att. Docket Number	JP02 0023 US
<p><input checked="" type="checkbox"/> Please charge any required fee under §1.17(l) or §1.17(p) or any other required fee (except the issue fee) to Account No. 14-1270.</p> <p>1. <input type="checkbox"/> I certify that these documents were first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three (3) months ago.</p> <p>2. <input type="checkbox"/> I certify that none of these documents were cited in any communication from a foreign Patent Office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, none of these documents was known to any individual designated in §1.56(c) more than three (3) months ago.</p> <p><input type="checkbox"/> A fee under §1.17(p) is not required under §1.97(c), after the first Action on the merits and more than (3) months after the date of application or RCE, because I certify 1. or 2. as indicated above.</p> <p><input type="checkbox"/> A copy of the citations is not required because they were previously submitted or cited in the parent application (or in U.S. patent application Ser. No. _____ Filing Date _____ relied on for an earlier effective filing date under 35 U.S.C. 120).</p> <p><input type="checkbox"/> A copy of the U.S. patent(s) and patent application publication(s) in all U.S. national patent applications filed after June 30, 2003, and in all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003 under 37 CFR 1.491(b), are not required.</p> <p><input type="checkbox"/> A concise explanation of the relevance of each non-English document, as understood by the individual designated in §1.56(c) most knowledgeable about the contents, is enclosed per §1.98(a)(3).</p> <p>The concise explanation of the relevance of any non-English document, as understood by the individual designated in §1.56(c) most knowledgeable about the contents, is that the document is/was:</p> <p><input type="checkbox"/> cited in the specification or considered in drafting the specification of this application;</p> <p><input type="checkbox"/> previously submitted or cited in the parent application (or in a related patent application Serial No. _____ Filing Date: _____);</p> <p><input type="checkbox"/> cited as an "X" or "Y" document in a foreign Patent Office search report in a foreign counterpart application, a copy of which report is also enclosed.</p>			
<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED</b>			
Name	Kevin Simons, Reg. No. 45,110		
Signature		Date:	6/9/05
<b>CERTIFICATE OF EXPRESS MAILING</b> I hereby certify that this paper and/or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 and is addressed to "Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Arlington, VA 22213," on the date indicated below.			
(Date)	6/9/05	(Signature)	
		(Name)	Daniel L. Michalek



INFORMATION DISCLOSURE STATEMENT TRANSMITTAL				Application Number		
To Commissioner For Patents Enclosed herewith is a Form PTO-1449, any required copies of documents listed thereon, and any concise explanation of their relevance is indicated below per 37 CFR 1.97.				Filing Date		
				First Named Inventor		
				Group Art Unit		
				Examiner Name		
				Atty. Docket Number		
				Satoru TAKAHASHI		
				JP02 0023 US		
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number No.-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns Lines, Where Relevant Passages or Relevant Figures Appear	
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number (city <sup>3</sup> no., kind <sup>4</sup> , if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of cited document	Pages, Columns Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		JP 177106/98	1998			
NON-PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in capital letters), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published.				T <sup>5</sup>
Examiner Signature					Date Considered	

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

ATTORNEY DOCKET NUMBER: JPL 3 US

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Koninklijke Philips Electronics N.C.	
Application No./Patent No.: Concurrently	Filed/Issue Date: Concurrently
Entitled: Liquid crystal display device with an optically diffusive reflecting layer and manufacturing method for the same	

Koninklijke Philips Electronics N.V., a corporation  
states that it is:

- ☒ the assignee of the entire right, title and interest,
- ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_% in the patent application/patent identified above,

by virtue of:

- ☐ An assignment from the inventor(s) of the patent application/patent identified above.  
The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
- ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:
1. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
  2. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
  3. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
- ☒ Copies of assignments or other documents in the chain of title are attached.  
(Note: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: 6/7/05

Respectfully submitted,

By Kevin Simons  
Kevin Simons, Reg. No. 45,110  
Title: Patent Attorney  
Tel: (408) 474-9075

## **EXHIBIT B**



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CUSTOMER USE ONLY			Forwarding Agency Acct. No. or ZIP Code to which Acct. No.		
FROM: (PLEASE PRINT) <b>D. MICHALEX</b> PHILIPS ELECTRONICS NA CORP INTELLECTUAL PROPERTY & STANDARDS 1107 HENRY DR MAILED STOP 41-50 SAN JOSE CA 95131-1706 USA			TO: (PLEASE PRINT) P/S ACT COMMISSIONER FOR PATENTS PO BOX 1450 ALEXANDRIA VA 22313-1450		
JP02 0024 US					

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Express Mail: EV 701785202 US

INT'L FILE DATE: 11 December 2003

FIRST INVENTOR: Yusui UKAWA

DOCKET No.: JP02 0024 US

DATE MAILED: 6/9/2005

ATTORNEY: SIMO/dlm

TITLE: COLOR FILTER AND LIQUID CRYSTAL DISPLAY DEVICE USING IT,  
AND THEIR MANUFACTURING METHODS

Items listed have been received in the USPTO on the date indicated by the stamp below.

- ☒ Transmittal Letter    ☒ Cert. of Mailing  
☒ Fees paid by deposit account  
☒ Preliminary Amendment - 6 pages  
☒ Declaration & POA - 2 pages  
☒ Assignment w/Recordation Form Cover Sheet - Fees paid  
☒ IDS with Form PTO/SB/1449    ☐ copy of \_\_\_ cited refs.  
☒ Power of Attorney to Prosecute Application Before the USPTO  
☒ Statement Under 37 CFR 3.73(b)

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Flat Rate <input type="checkbox"/> or Weight	<input type="checkbox"/> Next <input type="checkbox"/> Two <input type="checkbox"/> Third Day	Acceptance Emp. Initials		<input type="checkbox"/> Signature of Addressee (if not a business, please print name) <input type="checkbox"/> Signature of Addressee (if not a business, please print name) <input type="checkbox"/> Signature of Addressee (if not a business, please print name)			
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140/ 300

F:02 T:12

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>				AT: KEY'S DOCKET NO. <b>JP02 0024 US</b> U.S. APPLICATION NO. (If known, see 37 CFR 1.6)	
INTERNATIONAL APPLICATION NO. <b>PCT/IB03/05948</b>		INTERNATIONAL FILING DATE <b>11 December 2003</b>		PRIORITY DATE CLAIMED <b>17 December 2002</b>	
TITLE OF INVENTION <b>COLOR FILTER AND LIQUID CRYSTAL DISPLAY DEVICE USING IT, AND THEIR MANUFACTURING METHODS</b>					
APPLICANT(S) FOR DO/EO/US <b>Yusei UKAWA</b>					
Applicant(s) herewith submit to the United States Designated/Elected Office (DO/EO/US) the following:					
1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). <input checked="" type="checkbox"/> has been transmitted by the International Bureau. 3. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). <input checked="" type="checkbox"/> have not been made and will not be made. 4. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).					
The following document(s) or information are included:					
5. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98 6. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included 7. <input checked="" type="checkbox"/> A preliminary amendment 8. <input checked="" type="checkbox"/> Power of Attorney to Prosecute Application before the USPTO 9. <input checked="" type="checkbox"/> Statement under 37 CFR §3.73(b) 10. <input type="checkbox"/> Information Disclosure Statement 11. <input checked="" type="checkbox"/> Authorization Pursuant to 37 CFR § 1.136(a)(3) and to Charge Deposit Account <u>14-1270</u> 12. <input checked="" type="checkbox"/> Receipt Confirmation Postcard					
The following fees have been submitted:				<b>CALCULATIONS    PTO USE ONLY</b>	
13. <input checked="" type="checkbox"/> Basic national fee ..... \$ 300				<b>\$ 900</b>	
14. <input checked="" type="checkbox"/> Examination fee (Int'l prelim. exam. report NOT prepared by USPTO) ..... \$ 200					
15. <input checked="" type="checkbox"/> Search Fee (Int'l Search Report prepared and provided to the Office) ..... \$ 400					
<b>TOTAL OF 13, 14 and 15 =</b>					
<b>CLAIMS</b>	<b># FILED</b>	<b># EXTRA</b>	<b>RATE</b>		
Total claims	15 - 20 =	0	X \$50	\$ 0	
Independent claims	3 - 3 =	0	X \$200	\$ 0	
<b>TOTAL FEES FOR CLAIMS =</b>				<b>\$ 0</b>	
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)) accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property +				<b>\$ 40</b>	
<b>TOTAL FEES ENCLOSED =</b>				<b>\$ 940</b>	
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge the above fees, as well as any additional fee which may be required, with the exception of the Base Issue Fee, or credit any overpayment to our Deposit Account No. 14-1270.					
SEND ALL CORRESPONDENCE TO:					
PHILIPS ELECTRONICS NORTH AMERICA CORPORATION Intellectual Property & Standards 1109 McKay Drive, M/S41-SJ San Jose, California 95131			USPTO CUSTOMER NO. <div style="border: 1px solid black; display: inline-block; padding: 5px;"><b>24738</b></div>		
I hereby certify that this paper and/or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 is addressed to "Mail Stop PCT, Commissioner for Patents, PO Box 1450, Arlington, VA 22313," on the date indicated below.					
(Date) <u>6/9/05</u>		(Signature) <u>[Signature]</u> (Name) <b>Danfel L. Michalek</b>			

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Appl. No.	:	Unassigned	Confirmation No.	Unassigned
Applicant	:	Yusei UKAWA		
Filed	:	Concurrently		
TC/A.U.	:	Unassigned		
Examiner	:	Unassigned		

Docket No. : JP02 0024 US  
Customer No. : 24738

Title: COLOR FILTER AND LIQUID CRYSTAL DISPLAY  
DEVICE USING IT, AND THEIR MANUFACTURING  
METHODS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**PRELIMINARY AMENDMENT**

Sir:

Prior to calculation of the filing fee and examination please amend the above-identified application as follows:

**Amendments to the Specification** there are no amendments in this paper.

**Amendments to the Claims** begin on page 2 of this paper.

**Remarks/Arguments** begin on page 5 of this paper.

Appl. No. Unassigned; 1 . No. JP02 0024 US  
Amdt. dated 07-Jun-2004  
Preliminary Amendment

**Amendments to the Claims**

1. (ORIGINAL) A color filter for coloring a first light ray having a unidirectional optical path and a second light ray having a bidirectional optical path for each pixel, comprising:  
a first coloring portion for coloring the first light ray and a second coloring portion for coloring the second light ray, the first coloring portion having a greater thickness than the second coloring portion, the first coloring portion being formed in subsidence with respect to the second coloring portion with a principal plane of the first coloring portion being different in height from a principal plane of the second coloring portion by a predetermined value.
2. (ORIGINAL) A color filter as defined in Claim 1, characterized in that the predetermined value is a value required to substantially equalize or mutually optimize a first optical effect and a second optical effect, the first optical effect being to be exerted on the first light ray by a portion of a liquid crystal layer corresponding to the first coloring portion, and the second optical effect being to be exerted on the second light ray by a portion of the liquid crystal layer corresponding to the second coloring portion when the liquid crystal layer is used in a liquid crystal display panel to which the color filter is applied.
3. (ORIGINAL) A color filter as defined in Claim 2, characterized in that the optical effect is an effect of causing retardation.
4. (CURRENTLY AMENDED) A color filter as defined in ~~Claim 1, 2 or 3~~ Claim 1, characterized in that the first and second coloring portions have their respective thicknesses such that the first coloring portion provides a greater coloring effect than the second coloring portion when a light ray of the same optical path and the same property is transmitted through the first and second coloring portions.
5. (ORIGINAL) A color filter as defined in Claim 4, characterized in that the first coloring portion has a thickness substantially twice as great as the second coloring portion.



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6. (CURRENTLY AMENDED) A color filter as defined in ~~any one of Claims 1-5~~Claim 1, characterized in that the color filter further comprises a step-forming layer of an optical transmissive material, which supports the second coloring portion for providing the first and second coloring portions with thicknesses different from each other by the predetermined value.
7. (ORIGINAL) A color filter as defined in Claim 6, characterized in that the step-forming layer is colorless and transparent.
8. (CURRENTLY AMENDED) A color filter as defined in ~~any one of Claims 1-7~~Claim 1, characterized in that the step-forming layer includes an optically transmissive base material and multiple particles of optically transmissive material having a refractive index different from a refractive index of the base material and being scatteringly mixed into the base material.
9. (ORIGINAL) A liquid crystal display device using a color filter for coloring a first light ray having a unidirectional optical path and a second light ray having a bi-directional optical path for each pixel, the color filter comprising:  
a first coloring portion for coloring the first light ray and a second coloring portion for coloring the second light ray, the first coloring portion having a greater thickness than the second coloring portion, the first coloring portion being formed in subsidence with respect to the second coloring portion with a principal plane of the first coloring portion being different in height from a principal plane of the second coloring portion by a predetermined value.
10. (ORIGINAL) A liquid crystal display device according to in Claim 9, characterized in that:  
the color filter is provided on a substrate at a display face side of the liquid crystal display device;  
the opposite substrate is provided with a pixel electrode comprising a transmissive electrode part for causing the first light ray to be transmitted

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therethrough and a reflective electrode part for causing the second light ray to be reflected therefrom; and

an area of the first coloring portion is aligned with an area of the transmissive electrode part, and an area of the second coloring portion is aligned with an area of the reflective electrode part.

11. (ORIGINAL) A liquid crystal display device according to in Claim 10, characterized in that the transmissive electrode part and the reflective electrode part have principal surfaces of substantially the same height.

12. (ORIGINAL) A liquid crystal display device according to in Claim 10, characterized in that there is a difference of height between principal surfaces of the transmissive electrode part and reflective electrode part, and a sum value of this difference of height and the predetermined value is a value required to substantially equalize a first optical effect and a second optical effect, the first optical effect being to be exerted on the first light ray by a portion of a liquid crystal layer corresponding to the transmissive electrode part, and the second optical effect being to be exerted on the second light ray by a portion of the liquid crystal layer corresponding to the reflective electrode part when the liquid crystal layer is used in a liquid crystal display device to which the color filter is applied.

13. (ORIGINAL) A method of manufacturing a color filter for coloring a first light ray having a unidirectional optical path and a second light ray having a bi-directional optical path for each pixel, comprising the steps of:

depositing an optically transmissive material on a base layer;

patterning the deposited layer of optically transmissive material to form a step forming layer wherein at least one recess-shaped portion is formed for a pixel, the recess-shaped portion having a bottom face of a predetermined shape corresponding to an area wherein the first light ray is caused to be transmitted and a wall face of a predetermined height; and

depositing a material for coloring the first and second light rays on the step forming layer and the recess-shaped portion so as to form a first coloring portion for coloring the first light ray and a second coloring portion for coloring the second light

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ray, the first coloring portion having a greater thickness than the second coloring portion, the first coloring portion being formed in subsidence with a principal surface of the first coloring portion being different in height from a principal surface of the second coloring portion by a predetermined value.

14. (ORIGINAL) A method of manufacturing a liquid crystal display device, comprising the steps included in a method as defined in Claim 13, wherein  
the color filter is provided to one substrate of the liquid crystal display device and the other, opposed substrate is provided with a pixel electrode comprising a transmissive electrode part for making the first light ray to be transmitted therethrough and a reflective electrode part for making the second light ray to be reflected therefrom,  
the display device manufacturing method further comprising the step of aligning the first coloring portion with the transmissive electrode part and aligning the second coloring portion with the reflective electrode part.

15. (ORIGINAL) A method as defined in Claim 14, further comprising a pixel electrode forming step of forming the transmissive and reflective electrode parts in substantially the same heights.

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**REMARKS/ARGUMENTS**

The foregoing amendment(s) to claim(s) was/were made solely to avoid filing the claim in the multiple dependent form so as to avoid the additional filing fee.

The claim(s) was/were not amended in order to address issues of patentability and Applicant respectfully reserves all rights she may have under the Doctrine of Equivalents. Applicant furthermore reserves her right to reintroduce subject matter deleted herein at a later time during the prosecution of this application or continuing applications.

Please charge any fees other than the issue fee and credit any overpayments to Deposit Account 14-1270.

Respectfully submitted,

Date: 6/7/05

By K.S.  
Kevin Simons, Reg. No. 45,110  
(408) 474-9075

**Correspondence Address:**

Intellectual Property & Standards  
Philips Electronics North America Corporation  
1109 McKay Drive; Mail Stop SJ41  
San Jose, CA 95131 USA

**COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY**  
 (Includes Reference to PCT International Applications)

 ATTORNEY'S DOCKET  
 NUMBER  
**PHJP020024 US**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

 I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **"COLOR FILTER AND LIQUID CRYSTAL DISPLAY DEVICE USING IT, AND THEIR MANUFACTURING METHODS"**

the specification of which (check only one item below):

☐ is attached hereto.

☐ was filed as United States application

Serial No \_\_\_\_\_

on \_\_\_\_\_

and was amended

on \_\_\_\_\_

☐ was filed as PCT international application

Number \_\_\_\_\_

on \_\_\_\_\_

and was amended under PCT Article 19

on \_\_\_\_\_

(if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

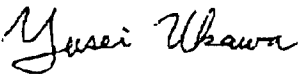
I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

**PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:**

COUNTRY	APPLICATION NUMBER	DATE OF FILING DAY, MONTH, YEAR	PRIORITY CLAIMED UNDER 35 USC 119
JAPAN	2002-365325	17, December, 2002	YES

 U.S. DEPARTMENT OF COMMERCE - Patent and Trademarks Office  
 (July 1994)

page 1 of 2

<b>Combined Declaration For Patent Application and Power of Attorney (Continued)</b> (includes Reference to PCT International Applications)				<b>Attorneys Docket Number</b> <b>PHJP020024 US</b>	
<b>POWER OF ATTORNEY:</b> As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number)					
Jack E. Haken, Reg. No. 26,902 Michael E. Marion, Reg. No. 32, 266 Edward M. Blocker, Reg. No. 30,245				Direct Telephone Calls to: (name and telephone number) (914)332-0222	
201	<b>FULL NAME OF INVENTOR</b>	<b>FAMILY NAME</b>	<b>FIRST GIVEN NAME</b>		<b>SECOND GIVEN NAME</b>
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b>	<b>STATE OR FOREIGN COUNTRY</b>		<b>COUNTRY OF CITIZENSHIP</b>
	<b>POST OFFICE ADDRESS</b>	<b>POST OFFICE ADDRESS</b>	<b>CITY</b>		<b>STATE &amp; ZIP CODE/COUNTRY</b>
		<b>UKAWA</b>	<b>Yusei</b>		
		<b>Nishi-ku, Kobe-shi, Hyogo</b>	<b>JAPAN</b>		<b>JAPAN</b>
		<b>4-13-5-A406, Koujidal,</b>	<b>Nishi-ku, Kobe-shi, Hyogo</b>		<b>JAPAN</b>
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.					
<b>SIGNATURE OF INVENTOR 201</b>					
					
<b>DATE</b> 10, December, 2003					

U.S. DEPARTMENT OF COMMERCE - Patent and Trademarks Office

(July 1994)

page 2 of 2

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office		<b>RECORDATION FORM COVER SHEET PATENTS ONLY</b>		Atty. Docket: <u>JP02 0024 US</u>	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies):  <b>Yusei UKAWA</b>			2. Name and address of receiving party(ies)  <b>KONINKLIJKE PHILIPS ELECTRONICS N.V. Groenewoudsaweg 1 Eindhoven, The Netherlands 5621 BA</b>		
3. Nature of conveyance: <input checked="" type="checkbox"/> <b>Assignment</b> <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date(s): <u>10-Dec-2003</u>			4. Application number(s) or patent number(s): If being filed together with a new application, the execution date of application is: <u>09-Jun-2005</u> A. Patent Application No.: _____ B. Patent No.: <u>NONE</u>		
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
5. Name & address to whom correspondence concerning document should be mailed:  <b>Philips Electronics North America Corp. Intellectual Property &amp; Standards 1109 McKay Drive, M/S-41SJ San Jose, California 95131</b>  Customer Number: <b>24738</b> PATENT TRADEMARK OFFICE			6. Total number of applications and patents involved: <u>1</u>  7. Total fee (37 DFR 3.41) <u>\$ 40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account		
			8. Deposit account number: <u>14-1270</u> (Duplicate copy of this page is attached)		
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  <u>Kevin Simons</u> Date <u>6/9/05</u> <b>Kevin Simons, Reg. No. 45,110</b>  Total number of pages including cover sheet, attachments, and documents: <u>2</u>					

U.S.A. Sole/Joint

## ASSIGNMENT

Docket No. PHJP020024 US

For good and valuable consideration, of which I acknowledge receipt, I/we, as a below-named assignor(s), sell and assign to Koninklijke Philips Electronics N.V. (hereinafter "Assignee") a corporation existing under the laws of Kingdom of the Netherlands, whose business address Groenewoudseweg 1, 5621 BA Eindhoven, the Netherlands, its successors and assigns, the application for a United States Patent for the improvements in a  
"COLOR FILTER AND LIQUID CRYSTAL DISPLAY DEVICE USING IT, AND THEIR MANUFACTURING METHODS"  
invented by me/us, which application:

- ☐ is executed concurrently herewith  
☐ was executed by me/us on .....  
☐ is Serial No. .... filed .....  
☐ is International Application No. .... filed.....

and all rights in and to said application, and all Patents which may be granted therefor, and all divisions, reissues, continuations and extensions thereof, and authorize and request the Commissioner of Patents and Trademarks to issue all Patents on said improvements or resulting therefrom to said Assignee as assignee of the entire interest and covenant that I have full right so to do, and agree that I will communicate to said Assignee or its representatives any facts known to me respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns and nominees, to obtain and enforce proper protection for said invention.

December 10, 2003 (sign name here)  
Date (print name here)

Yusei Ukawa  
Yusei UKAWA

\_\_\_\_\_, Assignor



<b>INFORMATION DISCLOSURE STATEMENT TRANSMITTAL</b>		<i>Application Number</i>	
<b>To Commissioner For Patents</b> Enclosed herewith is a Form PTO-1449, any required copies of documents listed thereon, and any concise explanation of their relevance is indicated below per 37 CFR 1.97.		<i>Filing Date</i>	
		<i>First Named Inventor</i>	Yusei UKAWA
		<i>Group Art Unit</i>	
		<i>Examiner Name</i>	
		<i>Atty. Docket Number</i>	JP02 0024 US

☒ Please charge any required fee under §1.17(f) or §1.17(p) or any other required fee (except the issue fee) to Account No. 14-1270.

1. ☐ I certify that these documents were first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three (3) months ago.

2. ☐ I certify that none of these documents were cited in any communication from a foreign Patent Office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, none of these documents was known to any individual designated in §1.56(c) more than three (3) months ago.

☐ A fee under §1.17(p) is not required under §1.97(c), after the first Action on the merits and more than (3) months after the date of application or RCE, because I certify 1. or 2. as indicated above.

☐ A copy of the citations is not required because they were previously submitted or cited in the parent application (or in U.S. patent application Ser. No. \_\_\_\_\_ Filing Date \_\_\_\_\_ relied on for an earlier effective filing date under 35 U.S.C. 120).

☐ A copy of the U.S. patent(s) and patent application publication(s) in all U.S. national patent applications filed after June 30, 2003, and in all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003 under 37 CFR 1.491(b), are not required.

☐ A concise explanation of the relevance of each non-English document, as understood by the individual designated in §1.56(c) most knowledgeable about the contents, is enclosed per §1.98(a)(3).

The concise explanation of the relevance of any non-English document, as understood by the individual designated in §1.56(c) most knowledgeable about the contents, is that the document is/was:


☐ cited in the specification or considered in drafting the specification of this application;

☐ previously submitted or cited in the parent application (or in a related patent application Serial No. \_\_\_\_\_ Filing Date: \_\_\_\_\_);

☒ cited as an "X" or "Y" document in a foreign Patent Office search report in a foreign counterpart application, a copy of which report is also enclosed.

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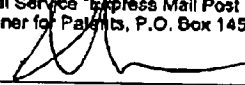
**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED**

<i>Name</i>	Kevin Simons, Reg. No. 45,110		
<i>Signature</i>		<i>Date</i>	6/9/05

---

**CERTIFICATE OF EXPRESS MAILING**

I hereby certify that this paper and/or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 and is addressed to "Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Arlington, VA 22313," on the date indicated below.

(Date) 6/9/05 (Signature)   
 (Name) Daniel L. Michalek



INTERNATIONAL SEARCH REPORT		International Application No. PCT/IB 03/05948
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G02F1/1335		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC 7 G02F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data bases consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/113927 A1 (HA KYOUNG-SU ET AL) 22 August 2002 (2002-08-22) figures 3-7	1-7, 9, 13
X	US 2002/003596 A1 (KIM YONG-BEOM) 10 January 2002 (2002-01-10) paragraph 00811; figure 10	1-7, 9, 10, 12-14
P, X	US 2003/160914 A1 (HA KYOUNG-SU) 28 August 2003 (2003-08-28) figure 7	1-9, 13
P, X	US 2003/117551 A1 (NARUTAKI YOZO ET AL) 26 June 2003 (2003-06-26) figure 1	1-7, 9, 10, 12-14
-/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "Z" document member of the same patent family		
Date of the actual completion of the international search 18 March 2004		Date of mailing of the international search report 29/03/2004
Name and mailing address of the ISA European Patent Office, P.O. 5818 Patentstein 2 NL - 3720 HV Rijswijk Tel: (+31-70) 340-2040, Tx: 51 651 epo nl Fax: (+31-70) 340-3070		Authorized officer G111, R

Form PCT/ISA/210 (second sheet) (July 2002)

page 1 of 2

## INTERNATIONAL SEARCH REPORT

Intel Patent Application No  
PCT/IB 03/05948

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KUBO M ET AL: "Development of Advanced TFT-LCD with good legibility under any ambient light intensity" JOURNAL OF THE SOCIETY FOR INFORMATION DISPLAY, SOCIETY FOR INFORMATION DISPLAY, SAN JOSE, US, vol. 8, no. 4, 2000, pages 299-304, XP002240612 ISSN: 1071-0922 figure 2	1-15

1

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

page 2 of 2

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/18 03/05948

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002113927 A1	22-08-2002	KR 2002068765 A	28-08-2002
US 2002003596 A1	10-01-2002	NONE	
US 2003160914 A1	28-08-2003	JP 2003255336 A	10-09-2003
US 2003117551 A1	26-06-2003	CN 1410815 A	16-04-2003
		CN 1409158 A	09-04-2003
		US 2003063244 A1	03-04-2003

Form PCT/ISA/210 (Patent family search) (July 1999)

PTO/SB/50 (11-04)  
Approved for use through 11/02/2005, OMB 0591-0005  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

### POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☒ Practitioner associated with the Customer Number: 24738

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 24738

OR

☐ Firm or Individual Name:

Address:

City:  State:  Zip:

Country:

Telephone:  Fax:


Assignee Name and Address:

**KONINKLIJKE PHILIPS ELECTRONICS N.V.**  
Groenewoudseweg 1  
5621 BA Eindhoven, The Netherlands

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/50 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature		Date	02 FEB 2005
Name	Michael E. Marion	Telephone (914)	333-9637
Title	Authorized Representative		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to be (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and reviewing the completed application form in the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form, or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/00 (11-84)  
Approved for use through 11/03/2005. OMB 0951-0035  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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### POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 2.73(b).

I hereby appoint:

☒ Practitioners associated with the Customer Number: 24738

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned solely to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 2.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 2.73(b) to:

☒ The address associated with Customer Number: 24738

OR

☐ Firm or individual Name:

Address:

City:  State:  Zip:

Country:

Telephone:  Fax:


Assignee Name and Address:

**KONINKLIJKE PHILIPS ELECTRONICS N.V.**  
Groenewoudseweg 1  
5621 BA Eindhoven, The Netherlands

A copy of this form, together with a statement under 37 CFR 2.73(b) (Form PTO/SB/04 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 2.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature: 	Date: <b>02 FEB 2005</b>
Name: <b>Michael E. Marion</b>	Telephone (914) 333-9637
Title: <b>Authorized Representative</b>	

This collection of information is required by 37 CFR 1.21, 1.22 and 1.33. The information is required to obtain or retain a benefit by the public which is to be filed by the USPTO to process an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing this form, call 1-800-PTO-9199 and select option 2.*

ATTORNEY DOCKET NUMBER: JPO 4 US

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Koninklijke Philips Electronics N.C.	
Application No./Patent No.: Concurrently	Filed/Issue Date: Concurrently
Entitled: Color filter and liquid crystal display device using it, and their manufacturing methods	

Koninklijke Philips Electronics N.V., a corporation  
states that it is:

- ☒ the assignee of the entire right, title and interest,
- ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_% in the patent application/patent identified above,

by virtue of:

- ☐ An assignment from the inventor(s) of the patent application/patent identified above.  
The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
- ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:
1. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
  2. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
  3. From \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
- ☒ Copies of assignments or other documents in the chain of title are attached.  
[Note: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: 6/9/05

Respectfully submitted,

By

Kevin Simons  
Kevin Simons, Reg. No. 45,110  
Title: Patent Attorney  
Tel: (408) 474-9075



## **EXHIBIT C**

Express Mail: EV 701785193 US

DOCKET No.: JP02 0023 US

INT'L FILE DATE: 11 December 2003

DATE MAILED: 6/9/2005

FIRST INVENTOR: Satoru TAKAHASHI

ATTORNEY: SIMO/dlm

TITLE: LIQUID CRYSTAL DISPLAY DEVICE WITH AN OPTICALLY DIFFUSIVE  
REFLECTING LAYER AND MANUFACTURING METHOD FOR THE  
SAME

Items listed have been received in the USPTO on the date indicated by the stamp below.

- ☒ Transmittal Letter      ☒ Cert. of Mailing
- ☒ Fees paid by deposit account
- ☒ Preliminary Amendment - 6 pages
- ☒ Declaration & POA - 2 pages
- ☒ Assignment w/Recordation Form Cover Sheet - Fees paid
- ☒ IDS with Form PTO/SB/1449      ☐ copy of \_\_\_ cited refs.
- ☒ Power of Attorney to Prosecute Application Before the USPTO
- ☒ Statement Under 37 CFR 3.73(b)

**JC10 Rec'd PCT/PTO 10 JUN 2005**

**10/538280**  
NOT CORRECT ✓

**DOCKETED ✓**

**1B03/005955**

Express Mail: EV 701785202 US

DOCKET No.: JP02 0024 US

INT'L FILE DATE: 11 December 2003

DATE MAILED: 6/9/2005

FIRST INVENTOR: Yusei UKAWA

ATTORNEY: SIMO/dlm

TITLE: COLOR FILTER AND LIQUID CRYSTAL DISPLAY DEVICE USING IT,  
AND THEIR MANUFACTURING METHODS

Items listed have been received in the USPTO on the date indicated by the stamp below.

- ☒ Transmittal Letter      ☒ Cert. of Mailing
- ☒ Fees paid by deposit account
- ☒ Preliminary Amendment - 6 pages
- ☒ Declaration & POA - 2 pages
- ☒ Assignment w/Recordation Form Cover Sheet - Fees paid
- ☒ IDS with Form PTO/SB/1449      ☐ copy of \_\_\_ cited refs.
- ☒ Power of Attorney to Prosecute Application Before the USPTO
- ☒ Statement Under 37 CFR 3.73(b)

**10/538280**

**DOCKETED ✓**

**JC10 Rec'd PCT/PTO 10 JUN 2005**

**1B03/005948**